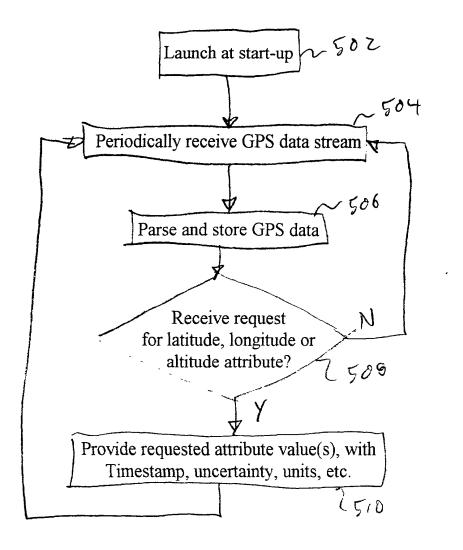


F163

That same affire floor word from 150 peach to the final floor



500

FIG 5A

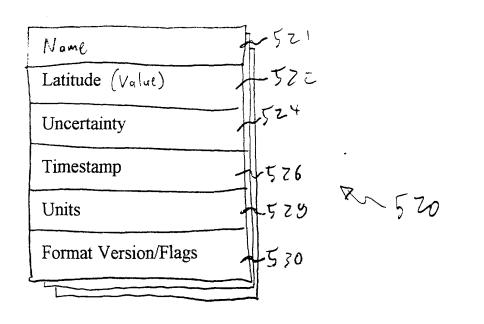
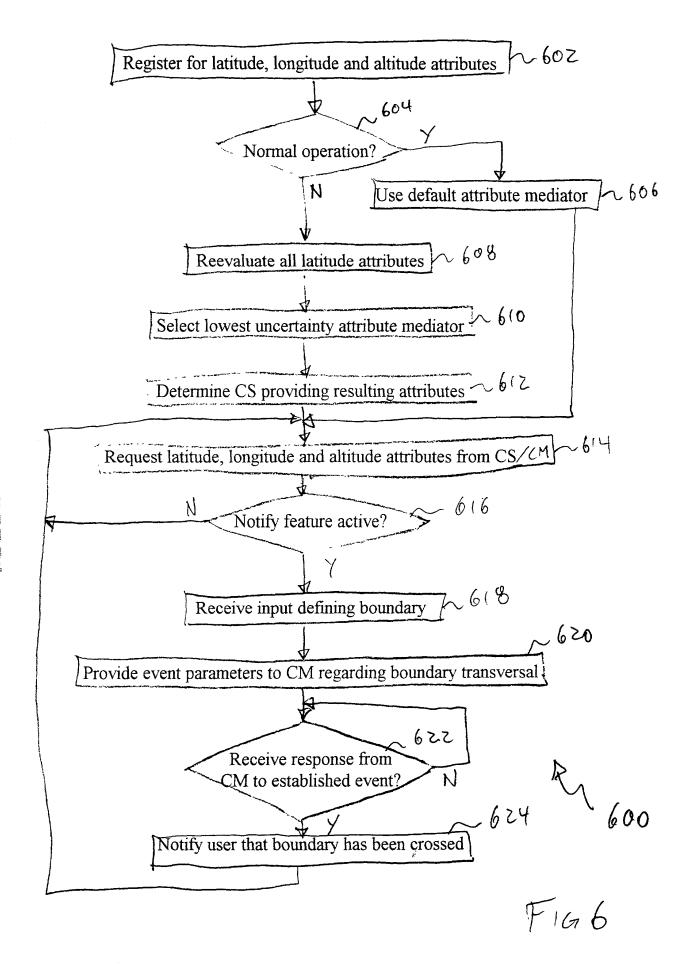
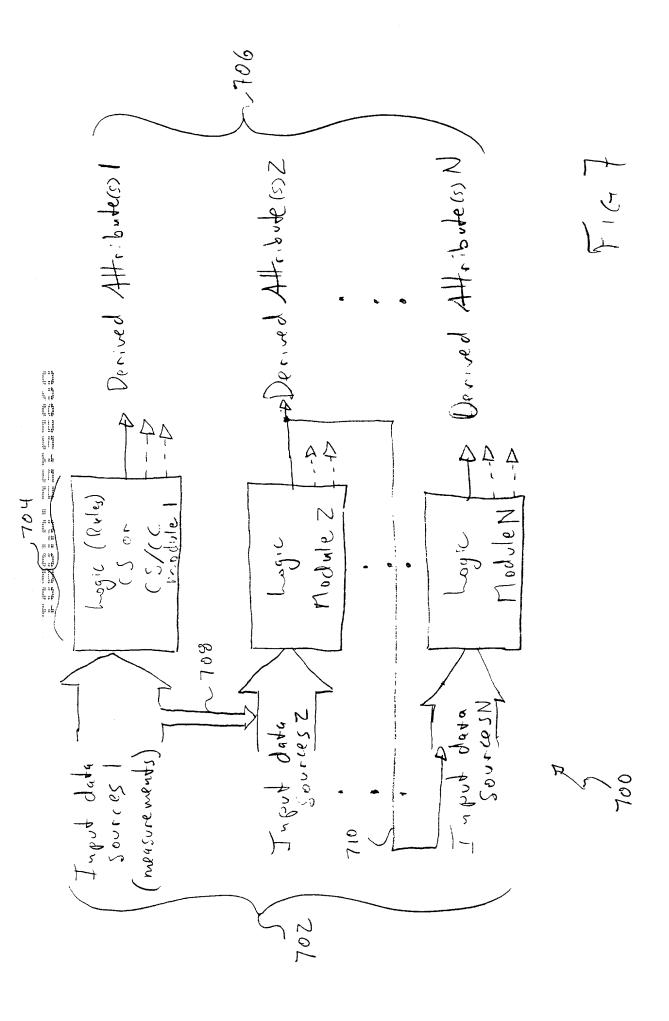


FIG5B

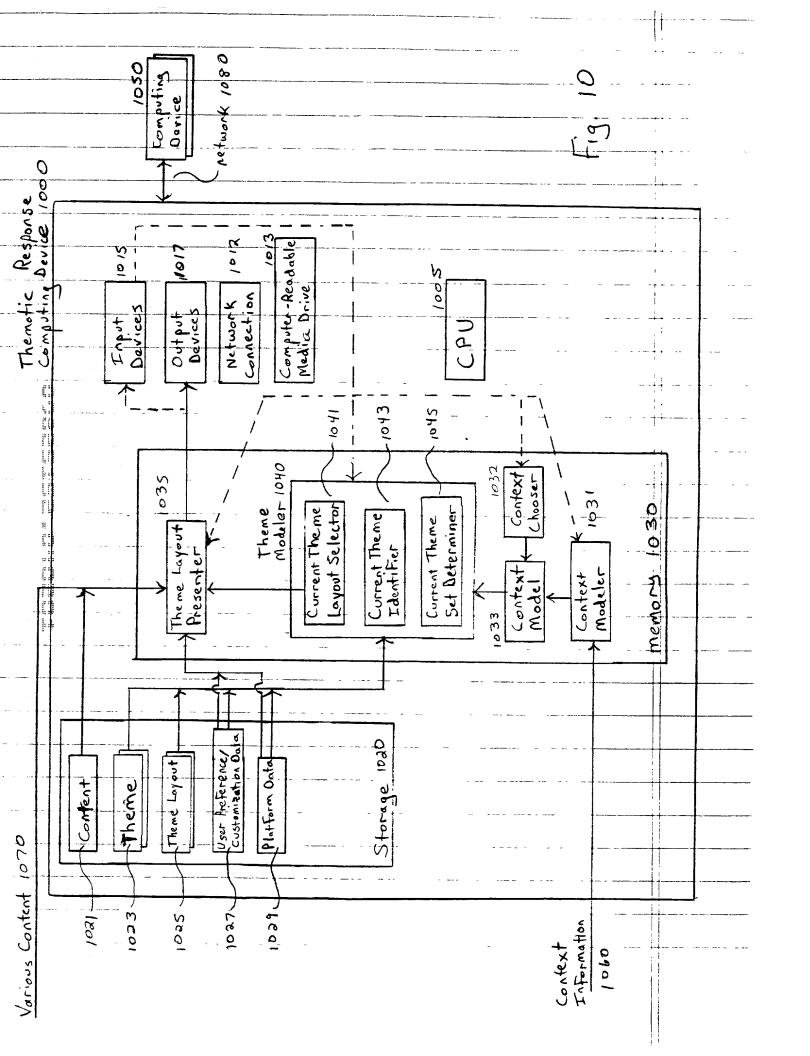




User.	Platform. (continued)
Desired_privacy_level	CPU.
Interruptibility	Load
Speed	Speed
Direction	Memory.
Acceleration	Total_capacity
Availability.	Used
Cognitive availability	Storage.
Tactile availability	Total_capacity
Manual availability	Used
Visual availability	Connectivity.
Oral_availability	Connection status
Auditory availability	Connection speed
Proximity. <item name="" or="" place=""></item>	Connection type/device
Mood.	Connection activity
Happiness	Power.
Sadness	Power source
Anger	Power level
Frustration	Environment.
Confusion	People.
Activity.	Nearest
Driving	Number_present
Eating	Number close
Running	Local.
Sleeping	Time
Talking	Date
Typing	Temperature
Walking	Pressure
Location.	Wind speed
Place_name	Wind direction
Latitude	Absolute humidity
Longitude	High_forecast_temperature
Altitude	Low_forecast_temperature
Room	People present
Floor	Ambient_noise_level
Building	Ambient_light_level
Address	Days. <pre>cprevious or future>.</pre>
Street	High_temperature
City	Low temperature
County	Precipitation_type
State	Precipitation amount
Country	Place. <place name="">. (same as Environment.Local)</place>
Postal_Code	Application.
Destination. (same as User.Location.)	Mail.
Physiology.	Available
Pulse	New_messages_waiting
Body_temperature	Messages waiting to be sent
Blood_pressure	Phone.
Respiration	Available
Person. <name id="" or="">. (same as User.)</name>	In_use
Platform.	On/off
UI.	Notification_mechanism
Oral_input_device_availability	Call_incoming
Manual_input_device_availability	Caller_ID
Tactile_output_device_availability	Sound_recorder.
Visual_output_device_availability	Available
Auditory output device availability	Recording

ser Setting	Computer
Mental Context	Power
Meaning	Configuration
Cognition	User Input Systems
Divided User Attention	Hand/Haptic
Task Switching	Keyboard/Keystrokes
Background Awareness	Voice/Audio
Solitude	Eye Tracking
Privacy	Cursors
Desired Privacy	Axis
Perceived Privacy	Resolution
Social Context	Selection
Affect	Invocation
Physical Situation	Accelerators
Body	Output Systems
Biometrics	Visual
Posture	Resolution
Motion	Audio
Physical Encumberment	Public/Private
Senses	Haptic
Eyes	External Resources
Ears	I/O devices
Tactile	Connectivity
Hands	Data
Nose	Quantity/State
Tongue	Urgency/Importance
Workload demands/effects	Use of Prominence
Interaction with computer devices	Modality
Interaction with people	Sensitivity/Purpose
Physical Health	Privacy Issues
Environment	Use of Association
Time/Space	Use of Safety
Objects	Source/Ownership
Persons	Types
Audience/Privacy Availability	User generated
Scope of Disclosure	Other computers or people
Hardware affinity for privacy	Sensor
Privacy Indicator for User	PC State
Privacy Indicator for Public	Use of Association
Watching Indicator	
Being Observed Indicator	
Ambient Interference	
Visual	
Audio	
Tactile	

F169



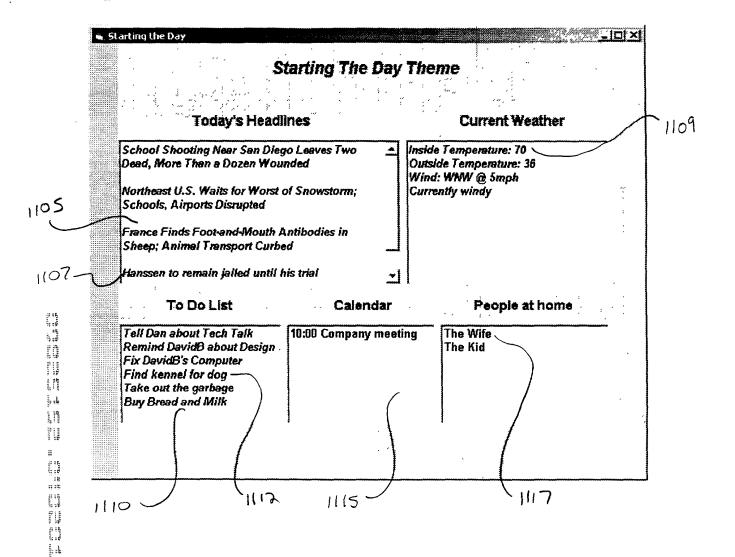


Fig. 11 A

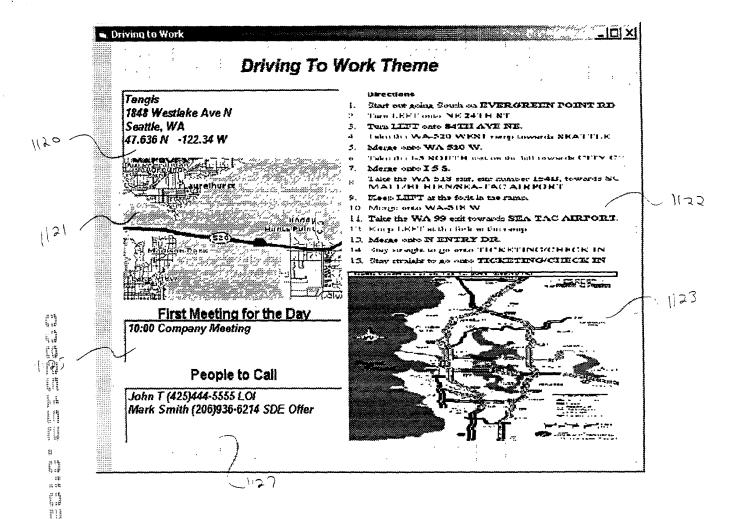


Fig. 11B

People in the Building	To Do List
Ancel Johnson	Tell Dan about Tech Talk Remind DavidB about Design spec deadline. Fix DavidB's Computer Call Mark Smith (206)936-6214 about Job Offer
Tree Tree Tree Tree Tree Tree Tree Tree	angis Bulletin Board
1 Weekly Company meeting at 10:0 2 VIA demo at 3:00pm Penthouse. I	Everyone invited. se tonight(Josh)
3 Who let my dog out?[Dan] 4 Extra ticket to Sonics/Lakers gam 5 Who used decaf on the non deca	f container?!?[Alan]

Fig. 11C

3:35.20	🚃 Calendar. 🤲 🗓 📆 📆 🙃	To Do List	:
8.200		Tell Dan about Tech Talk Remind DavidD about Design spec deadlir	,
		Fix DavidB's Computer	
900		See Bill about networking problems Call Mark Smith (206)936-6214 about SDE	
10 [∞]	Company Meeting		
11.00			
11			l
12 <u>pm</u>		People Around You	
100		Bill Watson	
		Alan Housley Dorothy B.	
200		"	:
	∑€ VIA Demo		
3.00	~ ATM Detilio		
4.00			
	······································		. 1

Fig. 11D

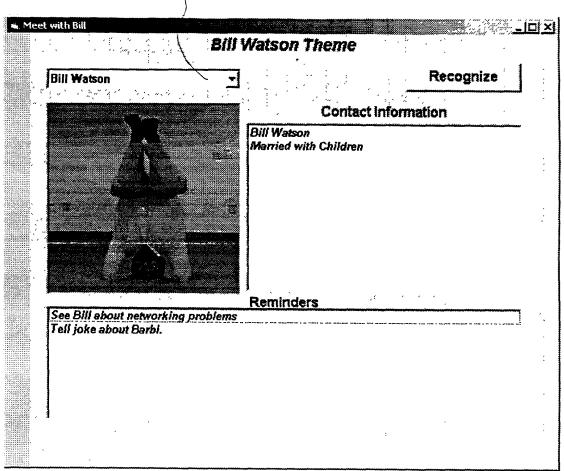


Fig 11E

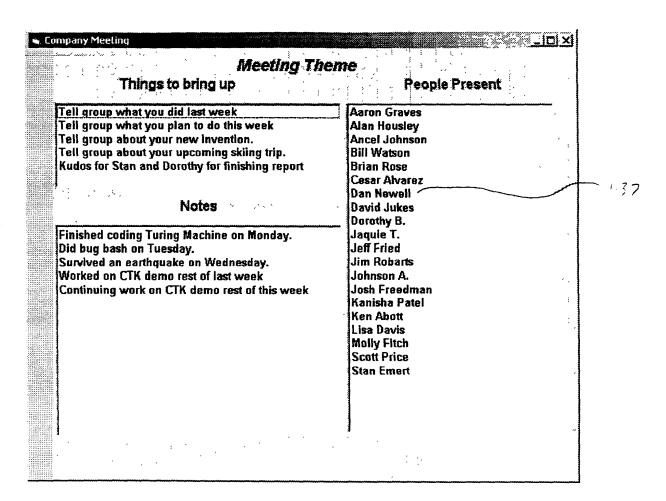


Fig. 11F

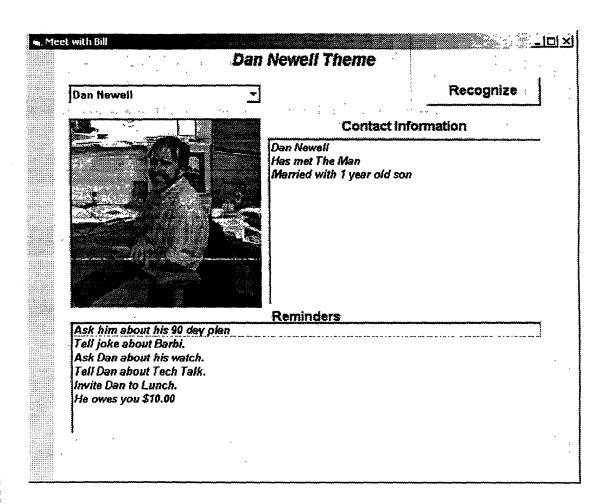


Fig. 11G

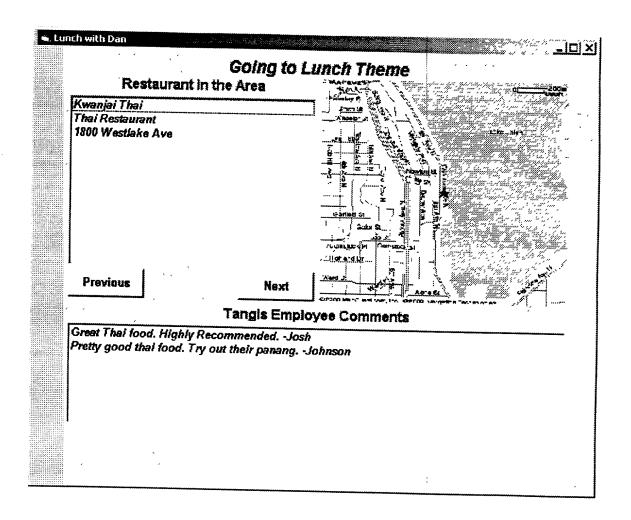


Fig. 11H

Computer Equipment Josh's Cor	nputer	1	•	,	
Description			Notes	F *** .	* * * * *
Dell XPS 4000 Purchase Date: 11/20/2000 Tangis Tag: PCD01 Software Installed	Josh the i He s disk'	ently inoper noticed a lo nard disk. ald it might 's brake pad	oud noise be a prok s.	iem witi	the
Office 2000 Visual Studios 6.0 MS Entertainment Pack Boeing Marketing Tutorial: How to talk like a techie	ir ne	mentions th	ns again,	numor r	iim.
Creative Sound Blaster 10.0 card Ricoh 32X CDRW MS USB Microphone	1				

Fig. 11 I

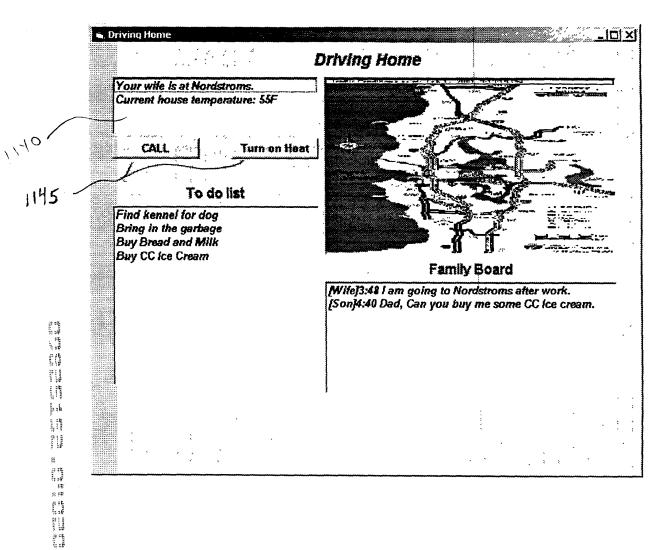


Fig. 11J

.L

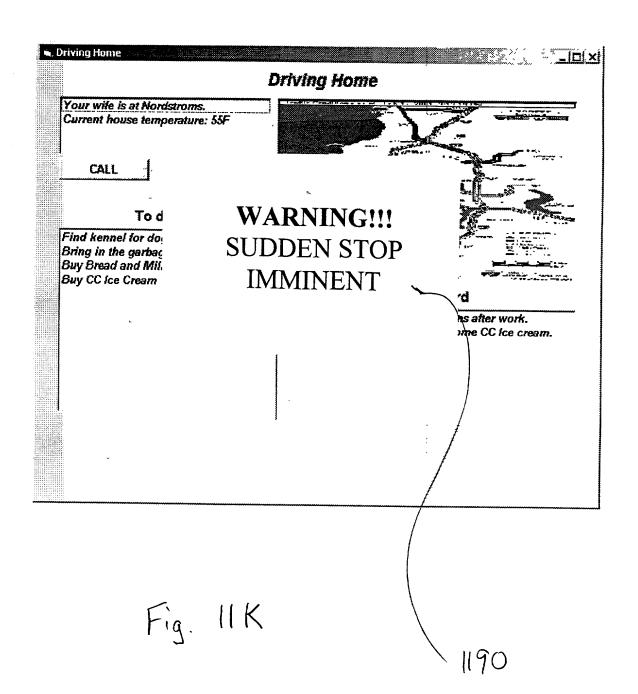


Fig 11L

Brite Thinks

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Change the offer than any

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Example Current Theme Selection

Select A New Current Theme

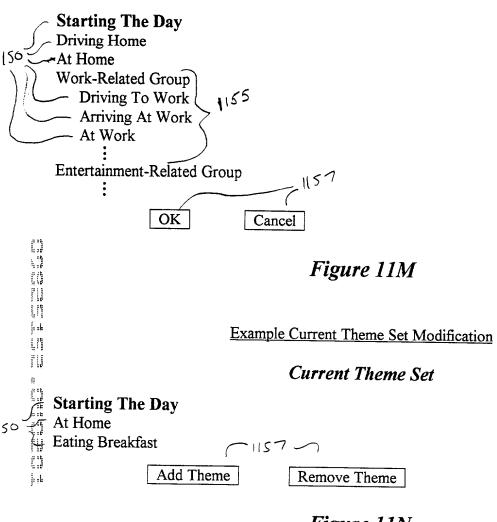
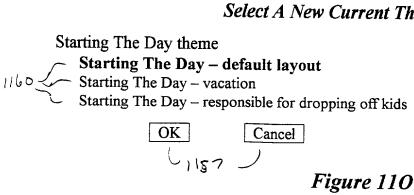


Figure 11N

Example Current Theme Layout Selection

Select A New Current Theme Layout



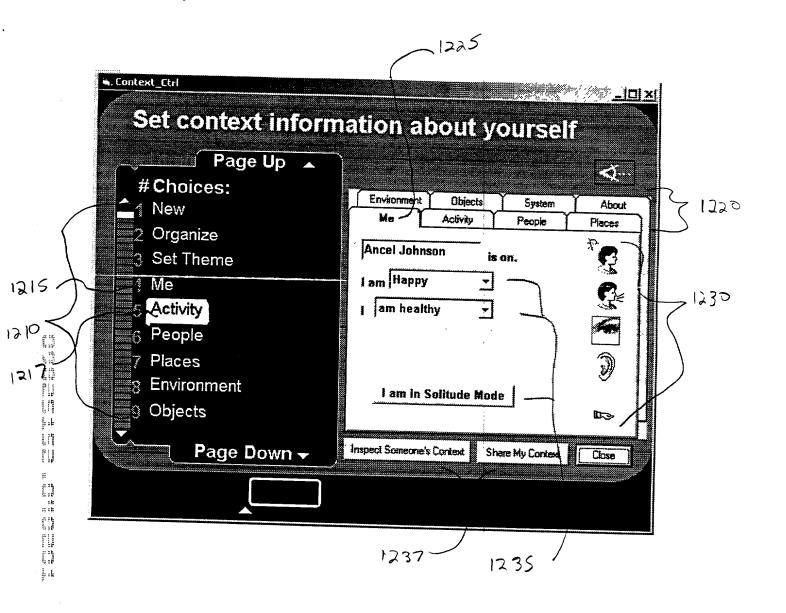


Fig. 12A

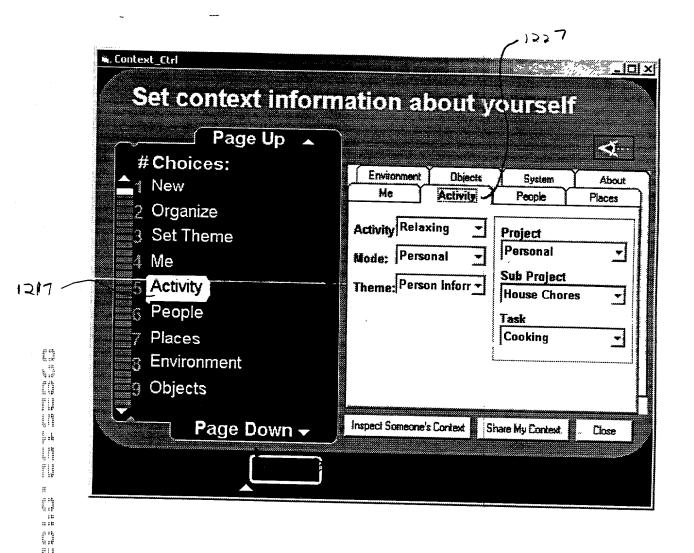


Fig. 12B

		241
Set context inform	ation about yourself	<u>-</u> 0×
Page Up 🔺	ation about yourself	4
# Choices:	Environment Objects System Me Activity People	About Places
2 Organize 3 Set Theme	People Around Me	
4 Me 5 Activity	David Jukes *Dan Newell Alan Housley	
6 People 7 Places	Johnson A.	
Environment Objects	Set Focus Remove	
Page Down →	Inspect Someone's Contest Share My Contest	Close

Fig. 12C

🖦 Context_Ctrl	A CONTRACTOR OF THE PROPERTY O
Set context inform	ation about yourself
Page Up 🔺	₹
#Choices:	Environment Objects System About Me Activity People Places
2 Organize 3 Set Theme	Location Jim's office
4 Me	LAT 47.636 N LONG -122.34 W
Activity Beople Places	room 1848 Westlake Ave N Seattle, WA
8 Environment 9 Objects	Destination Tangis
Page Down →	Inspect Someone's Context Share My Context Close

Fig. 12D

	1243
•, Context_Ctrl	×اً⊔ــ الله الله الله الله الله الله الله ال
Set context inform	ation about yourself
Page Up 🔺	
#Choices:	Me Activity People Places
	Environment Objects System About
2 Organize	Temperature Light Sound
3 Set Theme	
4 Me	Inside 70
Activity	
People	Outside 36
7 Places	
Environment	It is windy - today.
3 Objects	
Page Down ▼	Inspect Someone's Context Share My Context Close

Fig. 12E

	1244	
Set context inform	ation about yourself	101×
Page Up 🔺	The second secon	
#Choices:	Me Artivity Deens The	
New	Me Activity People Place Environment Objects System About	*
2 Organize		7
3 Set Theme		
	Objects Around Me Dan's Computer	
Activity	Laptop	
3 People	Xybernaut MA IV	
7 Places		
Environment		
9 Objects	Set Focus Remove	
Page Down →	Inspect Someone's Context Share My Context Close	

Fig. 12F

				1245
Set context inform	ation al	out y	ourse	r T
Page Up 🔺			an Buggaran Sanggaran	- X
#Choices:	Me	Bush da	Y	
🔔 🕯 New	Environment	Activity Objects	People System	Places About
2 Organize				
3 Set Theme	Battery		Signal Stre	ngth
4 Me	Nic Volume		GPS	
Activity	Backlight is	OFF	BlueTooth	
People			802.11	
7 Places				
Environment				
g Objects				Ц
Page Down -	Inspect Someone's	Context 5	hare My Context	Close

Fig. 12G

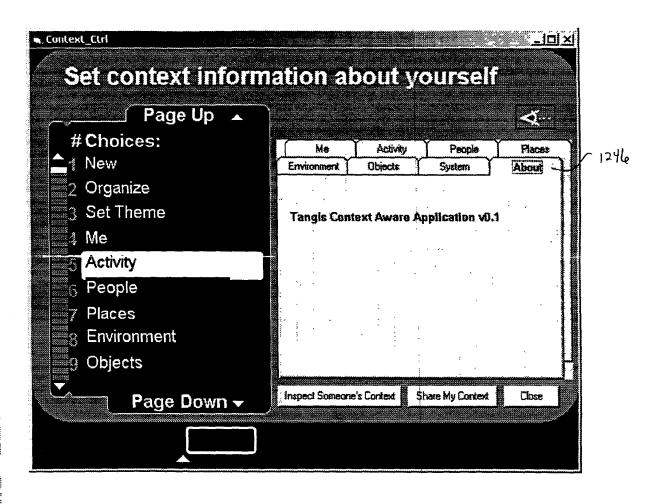


Fig. 12H

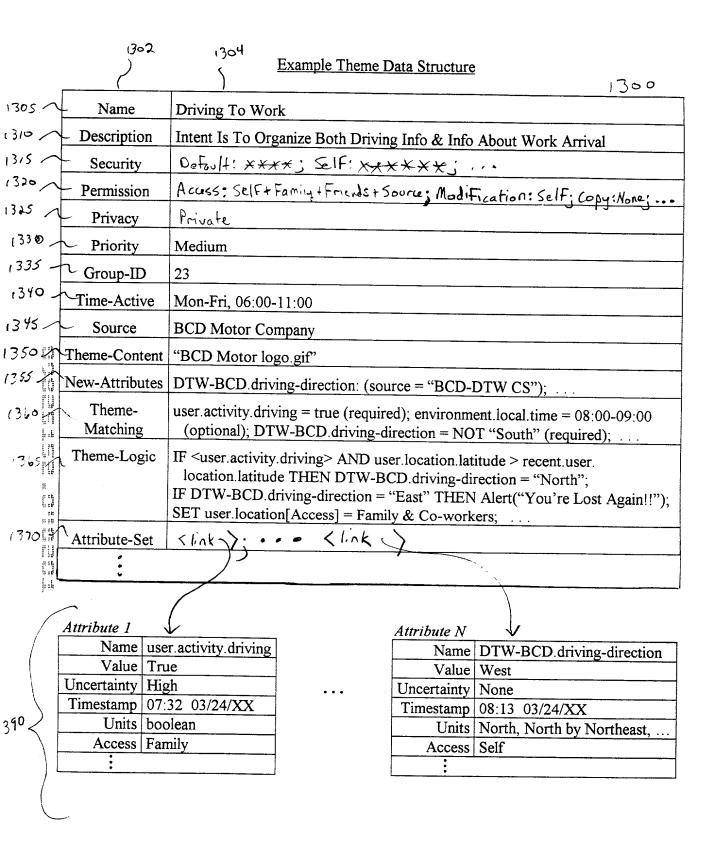
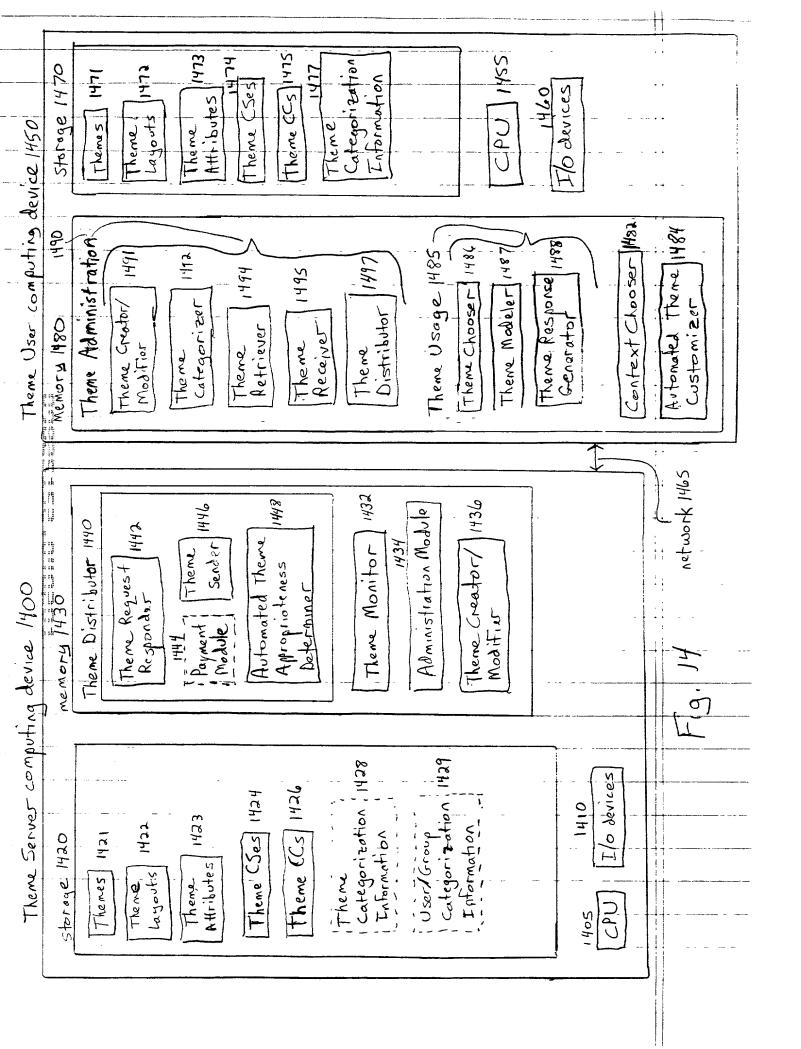
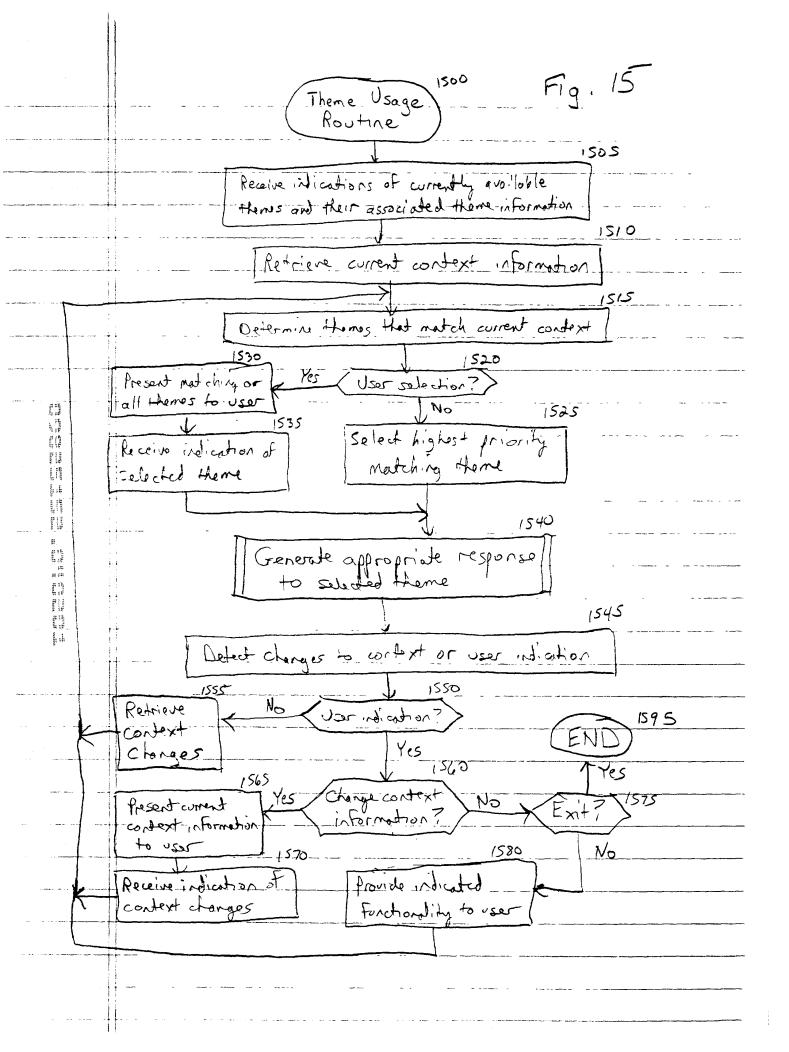
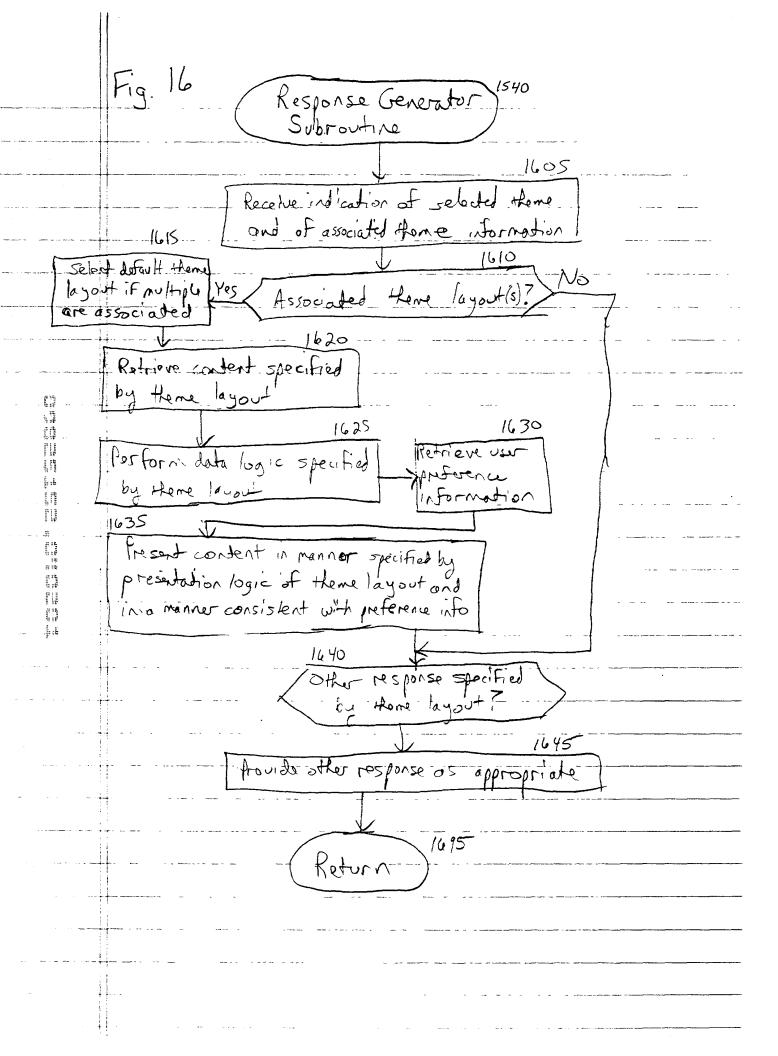
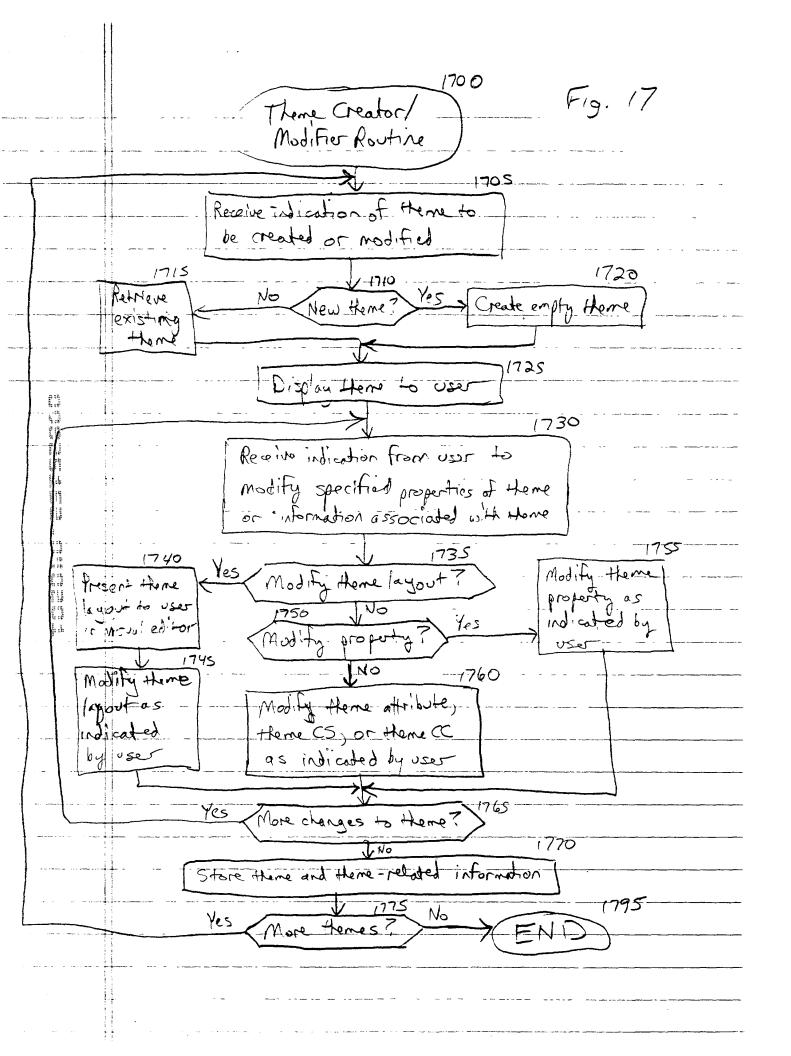


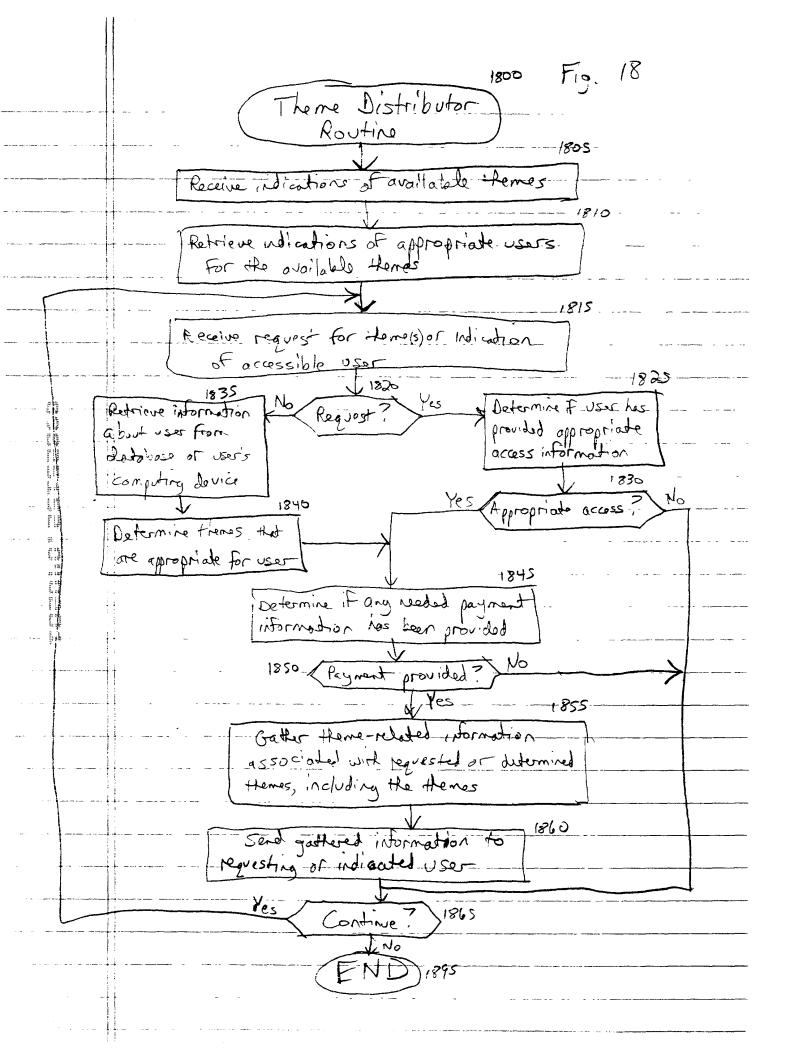
Figure 13

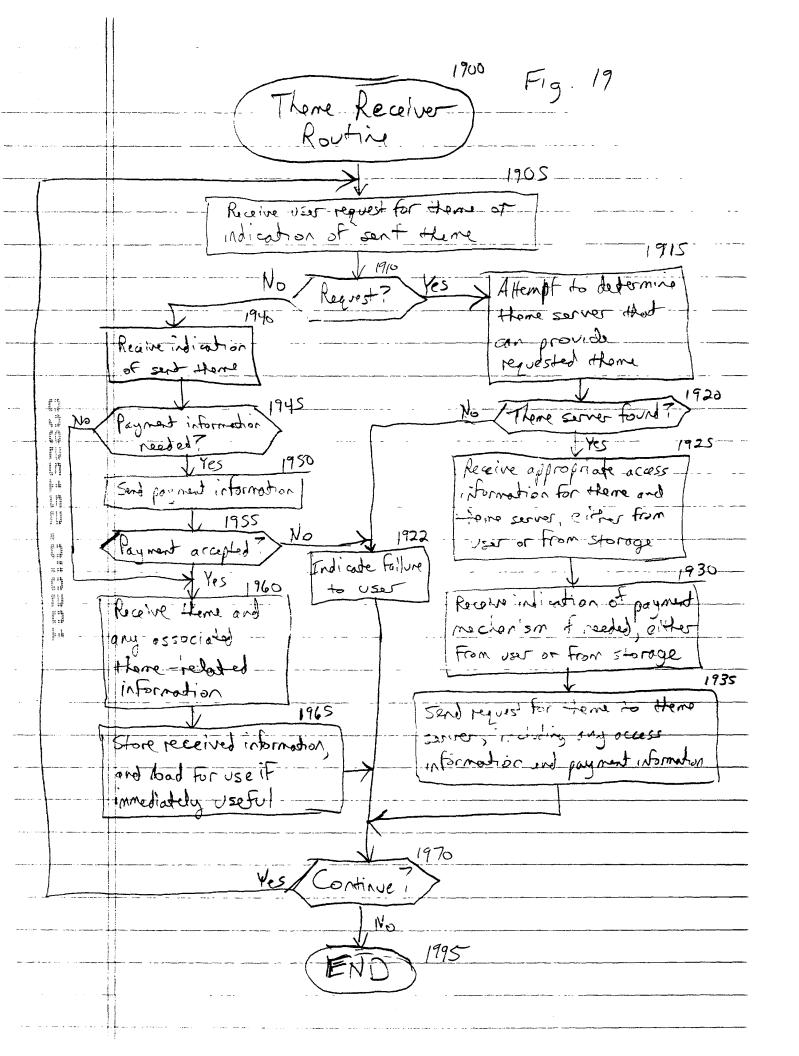


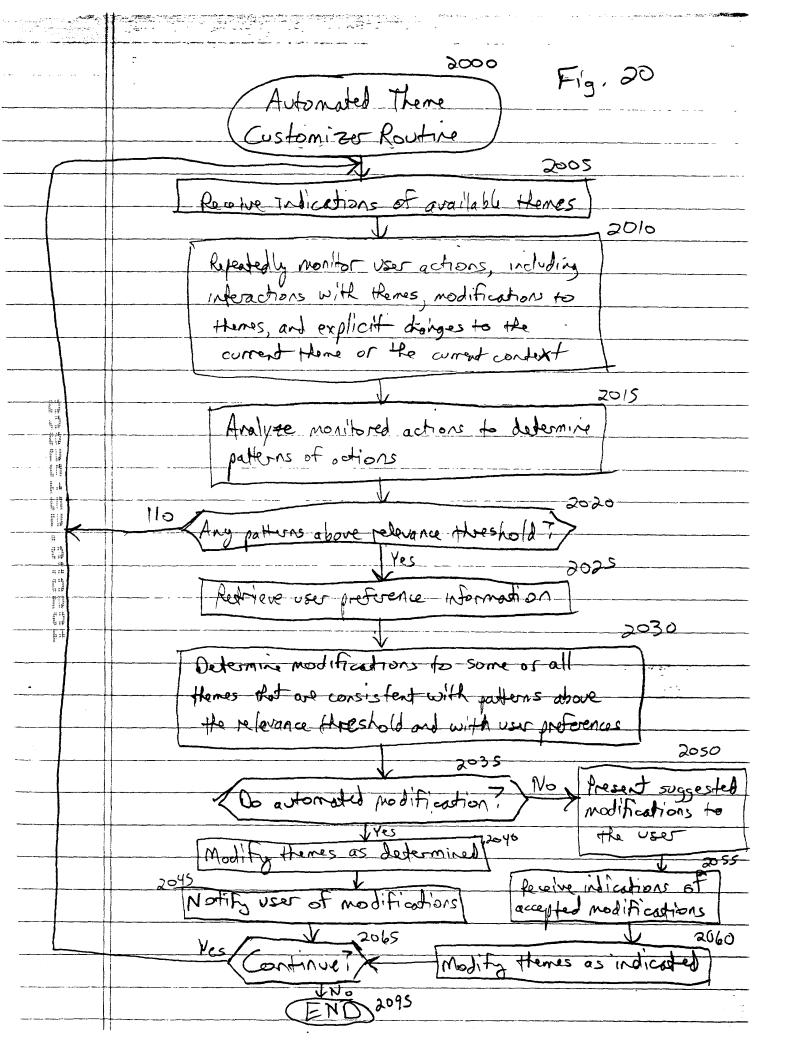












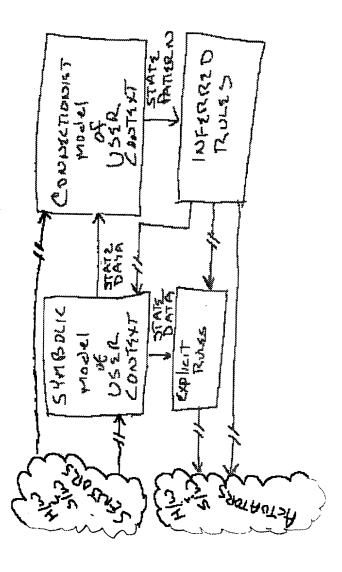


Figure 21

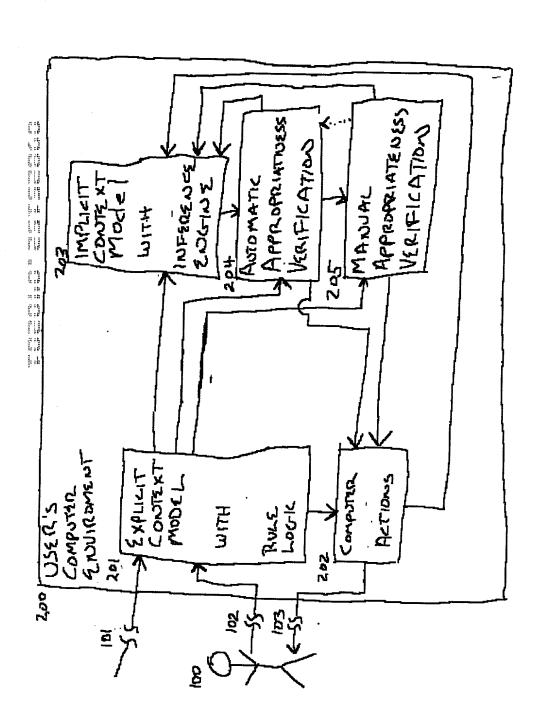


Figure 22

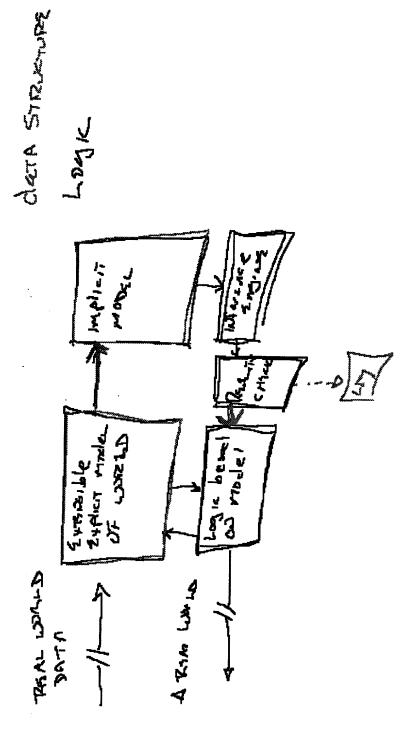


Figure 23

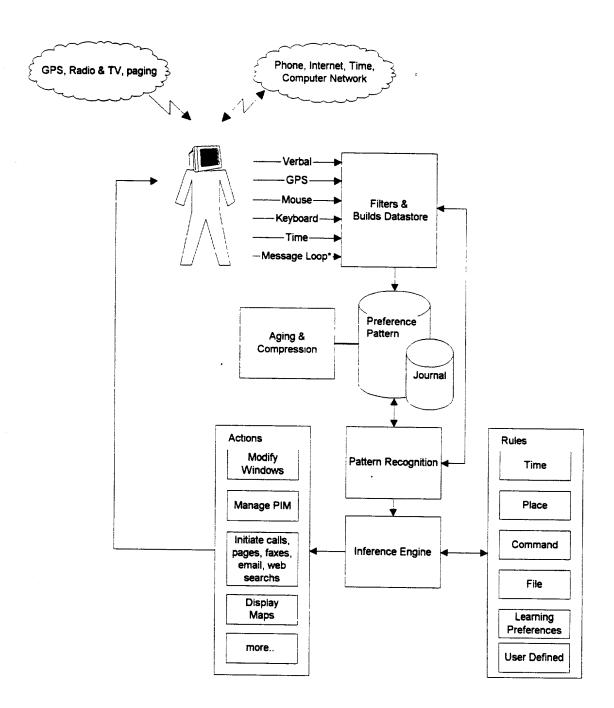
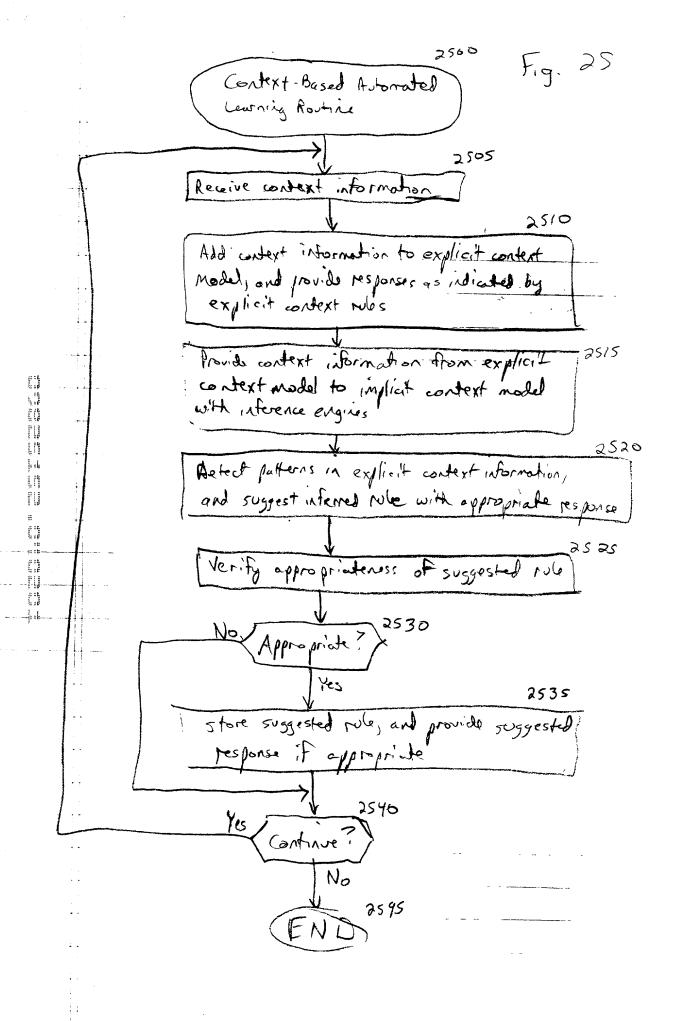
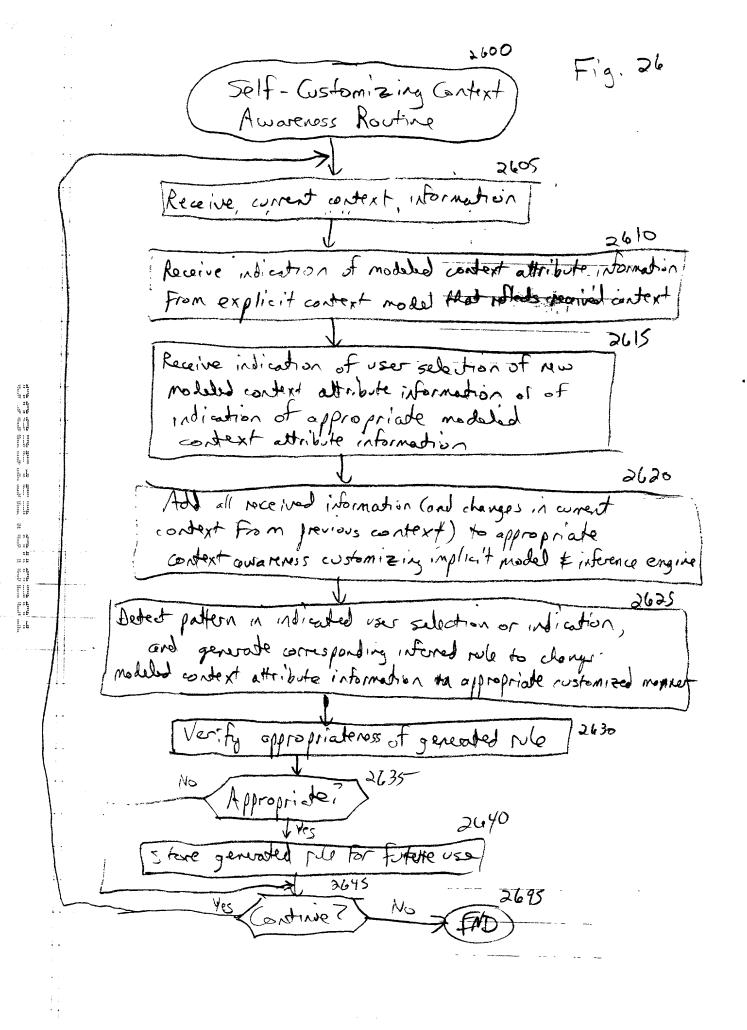
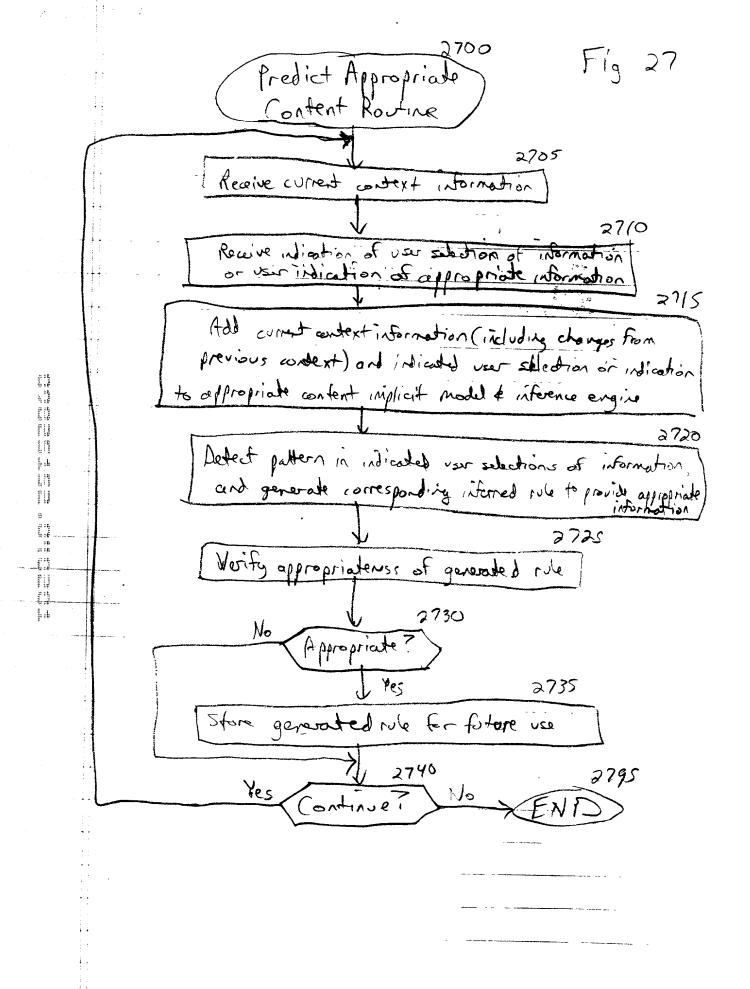


Fig. 24







2800 Fig. 28 Self-Optimizing UI Routine 2805 Receive current context . Normation 28/0 Regive indication of user changes to UI functionality or user indication of appropriate UI fonctionality Add received information Concluding changes from previous context) to appropriate UI optimizing implicit model and inference engine Detect pattern in user changes or indications, and generate corresponding interred rule to provide appropriate UI functionality ŗij. Verify appropriateress of generated rule Appropriate? 2835 Store generated rule for future use 2825 Ves Continue? EN

